FILE 'REGISTRY' ENTERED AT 11:52:27 ON 13 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 APR 2005 HIGHEST RN 848391-87-7 DICTIONARY FILE UPDATES: 12 APR 2005 HIGHEST RN 848391-87-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

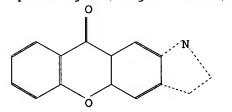
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Program Files\Stnexp\Queries\10716732.str



chain nodes :

18

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

chain bonds :

7-18

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13 12-15 13-14 13-17 15-16 16-17

exact/norm bonds :

5-7 6-10 7-8 7-18 8-9 8-11 9-10 9-14 11-12 12-13 12-15 13-14 13-17

15-16 16-17

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

=> d

L1 HAS NO ANSWERS

L1

STR

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 11:52:42 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 1015 TO ITERATE

98.5% PROCESSED

1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

18389 TO 22211

PROJECTED ANSWERS:

0 TO

L2

0 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 11:52:45 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 20804 TO ITERATE

100.0% PROCESSED 20804 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L3

0 SEA SSS FUL L1

=> log y

COST IN U.S. DOLLARS

SINCE FILE TOTAL

> ENTRY SESSION

FULL ESTIMATED COST

161.33

161.54

STN INTERNATIONAL LOGOFF AT 11:53:02 ON 13 APR 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptasel1626

Welcome to STN International

NEWS Web Page URLs for STN Seminar Schedule - N. America NEWS 2 "Ask CAS" for self-help around the clock NEWS FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered PATDPAFULL - New display fields provide for legal status NEWS FEB 28 data from INPADOC FEB 28 BABS - Current-awareness alerts (SDIs) available NEWS 5 NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded NEWS 7 MAR 02 GBFULL: New full-text patent database on STN NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY

NEWS 12 MAR 22 PATDPASPC - New patent database available

NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags

NEWS 14 APR 04 EPFULL enhanced with additional patent information and new fields

NEWS 15 APR 04 EMBASE - Database reloaded and enhanced

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability NEWS INTER General Internet Information NEWS LOGIN Welcome Banner and News Items NEWS PHONE Direct Dial and Telecommunication Network Access to STN NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * STN Columbus

FILE 'HOME' ENTERED AT 14:40:43 ON 13 APR 2005

=> file reg COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.21

FILE 'REGISTRY' ENTERED AT 14:40:51 ON 13 APR 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 APR 2005 HIGHEST RN 848391-87-7 DICTIONARY FILE UPDATES: 12 APR 2005 HIGHEST RN 848391-87-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Program Files\Stnexp\Queries\10716732s.str

15 16 17 18 ring nodes:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 19 20 21 chain bonds:
7-15 14-16 16-17 16-18 ring bonds:
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13 12-19 13-14 13-21 19-20 20-21 exact/norm bonds:
5-7 6-10 7-8 7-15 8-9 8-11 9-10 9-14 11-12 12-13 12-19 13-14 13-21 19-20 20-21 exact bonds:
14-16 normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-18

Match level :

chain nodes :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom 20:Atom 21:Atom

=> d

L1 HAS NO ANSWERS

Ll

STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 14:41:05 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED

2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH

COMPLETE 2 TO

PROJECTED ITERATIONS: PROJECTED ANSWERS:

O TO

L2

0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 14:41:09 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 87 TO ITERATE

100.0% PROCESSED

87 ITERATIONS

0 ANSWERS

TOTAL .

SEARCH TIME: 00.00.01

L3

0 SEA SSS FUL L1

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY SESSION

FULL ESTIMATED COST

161.33 161.54

FILE 'REGISTRY' ENTERED AT 14:41:12 ON 13 APR 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 APR 2005 HIGHEST RN 848391-87-7 DICTIONARY FILE UPDATES: 12 APR 2005 HIGHEST RN 848391-87-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Program Files\Stnexp\Queries\10716732b.str

chain nodes :
15 16 17 18
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
7-15 14-16 16-17 16-18
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13
13-14
exact/norm bonds :
5-7 6-10 7-8 7-15 8-9 8-11 9-10 9-14 11-12 12-13 13-14
exact bonds :
14-16
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-18

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS

=> d

L4 HAS NO ANSWERS

L4 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 14:41:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 353 TO ITERATE

100.0% PROCESSED 353 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

5933 TO 8187

PROJECTED ANSWERS:

1 TO 80

L5

1 SEA SSS SAM L4

=> s 14 full

FULL SEARCH INITIATED 14:41:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7332 TO ITERATE

100.0% PROCESSED 7332 ITERATIONS

30 ANSWERS

SEARCH TIME: 00.00.01

L6 30 SEA SSS FUL L4

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL

FULL ESTIMATED COST

ENTRY SESSION 161.33 322.87

FILE 'CAPLUS' ENTERED AT 14:42:01 ON 13 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December

26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 13 Apr 2005 VOL 142 ISS 16 FILE LAST UPDATED: 12 Apr 2005 (20050412/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 16 L7 28 L6

=> d ibib abs hitstr tot
THE ESTIMATED COST FOR THIS REQUEST IS 138.32 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

AUTHOR (5):

CORPORATE SOURCE: SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

ANSWER 1 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ESSION NUMBER: 1999:228953 CAPLUS
LUMENT NUMBER: 1999:228953 CAPLUS
LUMENT NUMBER: 131:2694
LE: Substituted manthones as antimycobacterial agents.
Fart 3. QSAR investigations
HOR(5): Schaper, Klaus-Juergen Pickert, Martina; Frahm,
August Wilhelm
RCE: Research Center Borstel, Borstel, D-23845, Germany
Archiv der Pharmazie (Weinheim, Germany) (1999),
332(3), 91-102
CODEN: ARPMAS; ISSN: 0365-6233
LISHER: Wiley-VER Verlag GmbH
QUant. structure activity-relationships between the antituberculous
activity of a series of 61 substituted manthones and their 13C NMR chemical
shifts, lipophilicity, and molar refractivities of the substituents were
investigated. In addition to these structural parameters, the test concas.
of the compds. were considered because of the varying solubility While the
multiple linear regression-based adaptive least squares anal, revealed
only weak correlations between the antituberculous activity clauses of the
compds. and their physicochem. parameters, significantly better results
were obtained by the artificial neural network technique, which describes
nonlinear relationships between the activity as dependent and the
physicochem. parameters as independent variables.
42073-77-8 77765-61-4 209461-14-3
209461-34-7 209461-33-8 209461-34-7
209461-34-7 209461-33-8 209461-38-8
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-9
209461-34-7 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461-38-9
209461-34-7 209461-38-8 209461

IT

77769-81-4 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

209461-14-3 CAPLUS

ANSWER 1 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN

209461-35-8 CAPLUS 9H-Yanthene-2,5-dicarboxylic acid, 4,7-dinitro-9-oxo- (9CI) (CA INDEX NAME)

209461-36-9 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 2,7-dinitro-9-oxo- (9CI) (CA INDEX

209461-55-2 CAPLUS
9H-Xanthene-4-carboxylic acid, 7-amino-9-oxo- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 1 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 9H-Xanthene-3,4-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

209461-22-3 CAPLUS 9H-Xanthene-4-carboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-23-4 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-24-5 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-34-7 CAPLUS 9H-Xanthene-4-carboxylic acid, 2,7-dinitro-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:485655 CAPLUS
DOCUMENT NUMBER: 129:200410
TITLE: Substituted wanthones as antimycobacterial agents.
Part 2. Antimycobacterial activity. [Erratum to document cited in CAl29:159024]
AUTHOR(S): Pickett, Hartina; Schapet, Klaus Juergen; Frahm, August Wilhelm
Dep. Pharmacy, Fac. Chemistry Pharmacy, Univ. Freiburg, Freiburg/Br., D-79104, Germany
Archiv der Pharmazie (Weinheim, Germany) (1998), 331(6), 230
CODEN: ARPMAS; ISSN: 0365-6233
Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
English
AB On page 195, in line 4i of Table 2 the symbol +++ should replace F in the columns corresponding to the concns. 32 and 16 µg/mL under M.

17 42073-77-0 77769-81-4 209461-12-5
209461-34-7 209461-33-8 209461-36-9
209461-35-2
RL: BAC (Biological activity or effector, except adverse); BSU (Biological activity or effector.

209461-55-2
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (substituted xanthones as antimycobacterial agents (Erratum)) 42073-77-8 CAPLUS
9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

77769-81-4 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

209461-14-3 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

209461-22-3 CAPLUS 9H-Xanthene-4-carboxylic acid, 7-nitro-9-oxo- {9CI} (CA INDEX NAME)

209461-23-4 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-24-5 CAPLUS
9H-Xanthene-3,4-dicarboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-34-7 CAPLUS
9H-Xanthene-4-carboxylic acid, 2,7-dinitro-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:
1998:403021 CAPLUS
1291:59024
171TLE: Substituted xanthones as antimycobacterial agents.
Part 2. Antimycobacterial activity
Pickert, Martina; Schaper, Klaus Juergen; Frahm,
August Wilhelm
Dep. Pharmacy, Pac. Chemistry Pharmacy, Univ.
Freiburg, Freiburg/Br., D-79104, Germany
Archiv der Pharmazie (Weinheim, Germany)
CODEX: ARPMAS; ISSN: 0365-6233
PUBLISHER: Wiley-VCH Verlag GmbH
Journal
LANGUNGE: Substituted xanthones were tested for their activity against 4
mycobacterial strains (Mycobacterium tuberculosis, M. avium, M. lufu, M.
smegmatis) by determination of the min. inhibitory concns. (MIC) values
For the

mycobacterial streams (nyactures)

magnatis) by determination of the min. inhibitory concns. (MIC) values.

For the

most active compds., supplementary characterization was performed by
bacterial growth kinetics, which allows a more precise interpretation of
their antimycobacterial effects. From the test set, 1-methyl-2,4,7trinitroxanthone showed the highest antimycobacterial activity with a MIC
value of 3 mg/ml. against M. tuberculosis, which is comparable to the
effect of well known drugs used in the treatment of tuberculosis. For all
other compds., the MIC values were determined, due to the comparatively low
activity and to the poor solubility of the compds., resp. The semiquant.
evaluation of activity against the different strains of mycobacteria
resulted in a classification into 3 activity classes, which will be used
as dependent parameter in GSAR investigations, to be published in part 3
of this series.

IT 42073-70-77759-81-4 209461-14-3
209461-34-7 209461-34-2 209461-34-5
209461-34-7 209461-33-8 209461-36-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-7 209461-34-8 209461-34-9
209461-34-8 209461-34-8 209461-34-9
209461-34-8 209461-34-8 209461-34-9
209461-34-8 209461-34-8 209461-34-9
209461-34-8 209461-34-8 209461-34-9
209461-34-8 209461-34-8 209461-34-9
209461-34-8 209461-34-8 209461-34-9
209461-34-8 209461-34-8 209461-34-8 209461-34-8
209461-34-8 209461-34-8 209461-34-8 209461-34-8
209461-34-8 209461-34-8 209461-34-8 209461-34-8
209461-34-8 209461-34-8 209461-34-8 209461-34-8
209461-34-8 20946

209461-55-2
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (substituted xanthones as antimycobacterial agents) 42073-77-8 CAPLUS
9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

77769-81-4 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

ANSWER 2 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

209461-35-8 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 4,7-dinitro-9-oxo- (9CI) (CA INDEX NAME)

209461-36-9 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 2,7-dinitro-9-oxo- (9CI) (CA INDEX

209461-55-2 CAPLUS 9H-Xanthene-4-carboxylic acid, 7-amino-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

209461-14-3 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

209461-22-3 CAPLUS 9H-Xanthene-4-carboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-23-4 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-24-5 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-34-7 CAPLUS 9H-Xanthene-4-carboxylic acid, 2,7-dinitro-9-oxo- (9CI) (CA INDEX NAME) '

209461-35-9 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 4,7-dinitro-9-oxo- (9CI) (CA INDEX NAME)

209461-36-9 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 2,7-dinitro-9-oxo- (9CI) (CA INDEX NAME)

209461-55-2 CAPLUS 9H-Xanthene-4-carboxylic acid, 7-amino-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 4 OF 28
ACCESSION NUMBER:
DOCUMENT NUMBER:
1998:403020 CAPLUS
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:81601
129:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

Wiley-VCH Verlag GmbH

UMENT TYPE: Journal

GUAGE: English
A series of substituted wanthones was synthesized to prove the hypothesis that electron-withdrawing substituents enhance the antimycobacterial activity of these compds. which is described by a QSAR equation with 13C-MR chemical shifts as independent parameters. The key step of the synthesis is the formation of 2-phenoxybenzoates by Ullmann reaction followed by intramol. Friedel-Crafts acylation, leading to methyl-, carboxy-, nitro-, cyano-, and aminoxanthones as a test set for QSAR investigations. Spectroscopic data (IH and 13C NRP, IR, UV) of these wanthones are presented and analyzed. Specific shift increments for wanthones depending on the substituent position and on the position of the resp. H/C atom as well as additivity rules were developed. 42073-77-89 77765-81-42 209461-14-3P
209461-12-3P 209461-23-4P 209461-24-5P
209461-34-7P
RL: PRP (Properties); RCT (Parameter)

209461-34-79
AL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation, IR, and IH and 13C NMR of xanthones) 42073-77-8 CAPLUS
9H-Kanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

77769-81-4 CAPLUS 9H-Xanthene-2,5-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

209461-14-3 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

ANSWER 4 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

209461-22-3 CAPLUS 9H-Xanthene-4-carboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-23-4 CAPIUS 9H-Xanthene-2,5-dicarboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-24-5 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 7-nitro-9-oxo- (9CI) (CA INDEX NAME)

209461-34-7 CAPLUS 9H-Xanthene-4-Carboxylic acid, 2,7-dimitro-9-oxo- (9CI) (CA INDEX NAME)

ANSWER 4 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN

209461-35-8P 209461-36-9P 209461-55-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, IR, and IH and 13C NMR of xanthones)
209461-35-8 CAPLUS
9H-Xanthene-2,5-dicarboxylic acid, 4,7-dinitro-9-oxo- (9CI) (CA INDEX

209461-36-9 CAPLUS 9H-Xanthene-3,4-dicarboxylic acid, 2,7-dinitro-9-oxo- (9CI) (CA INDEX

209461-55-2 CAPLUS 9H-Xanthene-4-carbowylic acid, 7-amino-9-oxo- (9CI) (CA INDEX NAME)

ANSWER 5 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

173853-25-3 CAPLUS 9H-Xanthene-4-carboxylic acid, 8-methoxy-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:1277 CAPLUS
124:175752 124:175752 124:175752
AUTHOR(S): Studies on synthesis of kanthones, part-9. Synthesis of kanthone carboxylic acids
Vyas, K. D., Trivedi, K. N.
CORPORATE SOURCE: Faculty Science, M. S. University Baroda, Baroda, 390
002, India
SOURCE: Indian Journal of Heterocyclic Chemistry (1995), 5(1), 1-6

1-6 CODEN: IJCHEI; ISSN: 0971-1627 Lucknow University, Dep. of Chemistry Journal English

PUBLISHER: DOCUMENT TYPE: LANGUAGE: AB 1,6-Dimet

. English
1.6-Dimethyl-3-methoxyxanthone, 3.5-dimethyl-1-methoxyxanthone and
3.6-dimethyl-1-methoxyxanthone on oxidation with RMnO4 gave mixts. of
xanthonecarboxylic acids which were converted to their Me esters and

rated by column chromatog. These Me esters on hydrolysis afforded the corresponding manthonedicarboxylic acids. Methoxymethylmanthones resisted oxidation hence the corresponding hydroxymethylmanthones were oxidized to

corresponding wanthonecarboxylic acids. Structures of the compds. were

Confirmed by IR and PMR spectra. 173853-15-19 173853-18-49 173853-21-99 173853-25-39

1/383-720-39
RE: SPN (Synthetic preparation); PREP (Preparation)
(preparation of xanthonecarboxylic acids)
173853-15-1 CAPLUS
9H-Xanthene-3,5-dicarboxylic acid, 1-methoxy-9-oxo- (9CI) (CA INDEX NAME)

173853-18-4 CAPLUS
9H-Xanthene-4-carboxylic acid, 3-methoxy-9-oxo- (9CI) (CA INDEX NAME)

173853-21-9 CAPLUS 9H-Xanthene-4-carboxylic acid, 6-methoxy-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
1995:608135 CAPLUS
1995:608135 CAPLUS
123:32935

TITLE:
Synthesis and Activity against Multidrug Resistance in Chinese Hamster Ovary Cells of New Acridone-4-carbovanides

AUTHOR(S):
Dodic, Nerins; Dumaitre, Bernard; Daugan, Alain; Pianetti, Passel.
CORPORATE SOURCE:
Centre de Recherches, Laboratories Glaxo, Les Ulis, 91951; Pr.
JOURNAL OF Medicinal Chemistry (1995), 38(13), 2418-26 COEDS: JOURNAL ISSN: 0022-2623

PUBLISHER:
American Chemical Society
JOURNAL English
AB A number of tricyclic carbovamides have been synthesized and tested to evaluate their ability to reverse multidrug resistance in the CHRC/S cell line. Among then the acridone derivs, were the most potent. A key feature is the presence of a dimethoxybenzyl or phenethylamine cationic site, separated from the tricyclic lipophilic part by a carbamoylphenyl chain.
Optimization led to commeds, 2 orders of magnitude more active than the

Optimization led to compds. 2 orders of magnitude more active than the prototype inhibitors verapamil and amiodarone. On the basis of in vitro and in vivo activities, 9,10-dihydro-5-methoxy-9-exo-N-[4-[2-(1,2,3,4-tetrahydro-6,7-dimethoxyisoquinol-2-yl)ethyl]phenyl]-4-acridinecarboxamide has been selected for further development.

42073-77-8
RL: RCT (Reactant): RACT (Reactant or reagent)
(synthesis and activity against multidrug resistance in Chinese hamster overy cells of new acridone-4-carboxamides)
42073-77-8 CAPLUS
9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 1995:257705 CAPLUS DOCUMENT NUMBER: 122:31342 122:31342
Preparation of anilide derivatives as tumor multidrug resistance inhibitors
Dumaitre, Bernard Andres Dodic, Nerinar Daugan, Alain Claude Maries Pianetti, Pascal Maurice Charle
Laboratories Glamo S.A., Fr.
PCT Int. Appl., 82 pp.
CODEN: PIXXD2
Patent
English 1 INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9401408 A1 19940120 WO 1993-EP1802 19930708
W; AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP,
KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD,
SE, SK, UA, US, VN

RW: AT, BB, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
BF, BJ, CF, CG, CT, CH, GA, CM, ML, MR, NE, SN, TD, TG
AU 9345671 A1 19940131 AU 1993-45671 19930708
EP 649410 A1 19950426 EP 1993-915865 19930708
EP 649410 B1 19970502
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LL, U, MC, NL, PT, SE
JP 08508974 E, CT 2 19960924 JP 1993-915865 19930708
ES 2103479 T3 19970916 ES 1993-915865 19930708
ES 2103479 T3 19970916 ES 1993-915865 19930708
US 5663179 A 19970902 US 1994-35623 19941229
PRIORITY APPLN. INFO:

GB 1992-14667 A 19920710
GB 1992-14667 A 19930708 OTHER SOURCE(S): MARPAT 122:31342

Title compds. [I; R = ZCONHZ]ABCH2; A = 0, 5, bond, NH, etc.; B = (hydroxy)alkylene; Rl = H, alkyl; R2 = H, halo, alkyl, alkoxy, alkylthio; R3,R6 = H, alkoxy; R4 = H, alkyl; alkoxy; R5 = H R1R5 = CH2, CH2CH2; Z = beterocyclyl, (substituted) 1,3 or 1,4-phenylene; m = 1 or 2| were propared Thus, 2-quinoxalinecarboxylic acid was condensed with 4-[3-1,2,3,4-tetrahydro-6,7-dimethoxy-2-isoquinolinyl)propyl)benzeneamine to give N-[4-[3-1,2,3,4-tetrahydro-6,7-dimethoxy-2-isoquinolinyl)propyl)phenyl]-quinoxalinecarboxamide. I had ECSO of <lp>C1µM for reversal of multidrug resistance of CHRC5 cells in vitro. E390 or taps to the vitro.
42073-77-6, 9-Cxoxanthene-4-carboxylic acid
RL: RCT (Reactant); RACT (Reactant or reagent)

L7 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
1994:644972 CAPLUS
TITLE:
1924:644972 CAPLUS
DISPOSITION OF THE NUMBER:
121:224972
DISPOSITION OF THE NUMBER:
AUTHOR(S):
CORPORATE SOURCE:
SCH. Medicine, Univ. Auckland, Auckland, N. Z.
SCH. Medicine, Univ. Auckland, Auckland, N. Z.
CORPORATE SOURCE:
SCH. Medicine, Univ. Auckland, Auckland, N. Z.
CORPORATE SOURCE:
JOURNAL TYPE:
JOURNAL MANUAGE:
ANA Wanthenone-4-acetic acid (XAA) is an exptl. antitumor agent which resembles flavone-8-acetic acid in its induction of cytokine synthesis, nitric oxide-production and tumor hemorrhagic necrosis. The authors have investigated the excretion and betabolic fate of XAA in the BPFI mouse.
XAA was administered i.v. at the maximal tolerated done (1090 µmol/kg).
Urine, plasma and bile were collected and subjected to anal. by HPIC.
Urine samples demonstrated labile metabolites which released XAA following incubation with B-glucuronidase/Sulphatase or at pH 5.0. The structures of isolated XAA metabolites were characterized by MS or IH-NNR spectra at 400 HHz. The major metabolites were characterized by MS or IH-NNR spectra at 400 HHz. The major metabolites acid side chain and aromatic hydroxylation of the wanthenone ring.

17 42073-77-9
RL: BIOL (Blological study)
(formation and characterization of as mathemane.

42073-77-8
RL: BIOL (Biological study)
(formation and characterization of, as manthenoneacetic acid metabolite
in urine)
42073-77-9 CAPLUS
9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

ANSWER 7 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) (reaction of, in prepn. of multidrug resistance inhibitor) 42073-77-8 CAPLUS 9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
1994:508534 CAPLUS
121:108534
121:108534 CAPLUS
1TITLE:
4 Preparation of heterocyclic condensed benzoic acid derivatives as 5-HT4 receptor antagonists
Gaster, Laramie Maryy Mulholland, Keith Raymond
SMIRCE:
5 SOURCE:
5 CODENT FIRED
COURT TYPE:
1 PATENT INFORMATION:
1 English
FAMILY ACC. NUM. COUNT:
1 PATENT INFORMATION:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	
WO 040900E		WO 1993-EP2809	
W: AT, AU, BB,	BG, BR, BY, CA,	CH, CZ, DE, DK, ES,	FI, GB, HU, JP,
KP, KR, KZ,	LK, LU, MG, MN,	MW, NL, NO, NZ, PL,	PT, RO, RU, SD,
SE, SK, UA,	US, VN		
RW: AT, BE, CH,	DE, DK, ES, FR,	GB, GR, IE, IT, LU,	MC, NL, PT, SE,
		GN, ML, MR, NB, SN,	
ZA 9307507		ZA 1993-7507	
CA 2146923	AA 19940428	CA 1993-2146923	19931012
AU 9453695	A1 19940509	AU 1994-53695	19931012
		CN 1993-114856	
		EP 1993-924035	
		GB, GR, IE, IT, LI,	
		JP 1993-509616	
PRIORITY APPLN. INFO.:			
INIONIII MII MII IMOII			
		GB 1992-21769	
		GB 1992-23137	A 19921105
		GB 1992-23139	
		WO 1993-EP2809	W 19931012
OTHER SOURCE(S):	MARPAT 121-1085	34	

AB Title compds. I (X = 0, S; Rl = H, H2N, halo, Cl-6 alkyl, H0, Cl-6 alkoxy; R2 = H, halo, Cl-6 alkyl, Cl-6 alkoxy, O2N, H2N, Cl-6 alkylthior R3 = H, halo, Cl-6 alkyl, Cl-6 alkoxy, H2N, R1 = H, Cl-6 alkyl, substituted heterocyclyl; Y = HN, O; Z = (substituted) aminoalkyl, substituted heterocyclyl; and a salt thereof, for use as 5-H4 receptor antagonists in treatment or prophylaxis of gastrointestinal-, cardiovascular-, and CMS disorders (no data for the disorders), are prepared Benzothiophene-7-carboxylic acid (preparation given) and 2.3-dihydrobenzothiophene-7-carboxylic acid in DMF was treated with 1,1-carbonyldiimidazole followed by N-butyl-4-piperidinylmethanol in TMF to give I (X = 0, R1 = R3 = R4 = H, R2 = Cl, Y = HN, Z = 1-butyl-4-piperidinylmethyl). The pICSO (-log concentration

ANSWER 9 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) of antagonist which reduces the contraction by 50%) of I using guinea pig colon was at least 7. 42073-77-8

AZVI3-17-8
RL: RCT (Reactant): RACT (Reactant or reagent)
(reaction of, in preparation of 5-HT4 antagonists)
4203-37-78 CAPLUS
9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

ANSWER 10 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN

135199-80-3 CAPLUS 9H-Yanthene-4-propanoic acid, 5-carboxy-3-(decyloxy)-9-oxo- (9CI) (CA INDEX NAME)

AUTHOR (S):

CORPORATE SOURCE:

L7 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:472462 CAPLUS
DOCUMENT NUMBER: 119:72462
TITLE: Design, synthesis, and pharmacological evaluation of potent wanthone dicarboxylic acid leukotriene B4

receptor antagonists
Jackson, William T.; Boyd, Robert J.; Froelich, Larry
L.; Gapinski, D. Mark; Mallett, Barbara E.; Sawyer, J.

Copens A. Factor market, market, market, market, market, market a. Sawyer, J. Scott Lilly Res. Lab., Eli Lilly and Co., Indianapolis, IN, 46285, USA

Journal of Medicinal Chemistry (1993), 36(12), 1726-34

CODEN: JMCMAR; ISSN: 0022-2623

Dournal
English

DOCUMENT TYPE: LANGUAGE: GI

In an effort to develop increasingly potent and specific leukotriene B4 (LTB4) receptor antagonists, several xanthone dicarboxylic acids, e.g. I, were synthesized and evaluated. Two sep, synthetic routes were used to construct a xanthone nucleus containing a regiospecific orientation of each carboxylic acid pharmacophore. These compds, represent the major confornationally-restricted analogs of benzophenone dicarboxylic acids previously shown to antagonize the activation of human neutrophils by LTB4. The most potent agent was compound 1, which inhibited the specific binding of [SH]LTB4 to receptors on intact human neutrophils [CSS), 6,2 to 1 nM), LTB4-induced luminol-dependent chemiluminescence (ICSO, 85 to 1 nM), aggregation (ICSO, 131 td 2 M), and chemotaxis (ICSO, 89 to 1 1 nM), aggregation (ICSO, 131 td 2 M), and chemotaxis (ICSO, 89 to 1 1 nM), phenylalanine-induced chemiluminescence (ICSO, 159 to 3 17 nM) and aggregation (ICSO, 2166 to 432 nM), indicating specificity in the inhibition of LTB4-stimulated events. Compound I (LY210073), which was completely devoid of agonist activity, appears to be one of the strongest inhibitors, of LTB4 receptor binding reported so far.

135199-79-0F 135199-80-39
RL: SPN (Synthetic preparation), PREP (Preparation) (preparation and leukotriene B4 receptor antagonist activity of) 135199-79-0 CAPLUS
SH-Kanthene-2-propancic acid, 5-carboxy-3-(decyloxy)-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1993:16418 CAPLUS COPYRIGHT 2005 ACS ON STN 118:16418 CAPLUS Characteristics Characteris

Characterization of the spatial arrangement of the two acid-binding sites on the human neutrophil LTB4

acid-binding sites on the human neutrophil LTB4
receptor
Chaney, M. O., Froelich, L. L., Gapinski, D. M.,
Mallett, B. E., Jackson, W. T.
CORPORATE SOURCE: Lilly Res. Lab., Eli Lilly and Co., Indianapolis, IN,
46285, USA
SOURCE: RECEPTOR (1992), 2(3), 169-79
CODEM: RECEETS; ISSN: 1052-8040
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Lipophilic benzophenone dicarboxylic acids have been shown to be
inhibitors of the binding of LTB4 to its receptors on intact human
neutrophils (Gapinski et al., 1990). Structure-activity relations
indicated that maximum activity was achieved when an acid group was attached
at the meta position of each ring. In this report, the conformation of
these inhibitors that binds best to the LTB4 receptor was determined
Inhibition concentration profiles of 4 rigid wanthone isomers that mimicked

innibition concentration profiles of 4 rigid manthone isomers that mimicked a major conformational states of this type of benzophenone dicarboxylic acid were compared. LY264086, 3-[4-(7-carboxy-3-(decyloxy)-9-oxo-9H-manthene]]propanoic acid, was the most potent inhibitor. The distance between the 2 carboxyl groups in this isomer was 9.8 å, implying that the 2 acid binding sites on the receptor are separated by similar insions.

Mol. modeling studies with low energy conformers of the manthone isomers and LTB4 suggested a configuration of the agonist when it is bound to the receptor, but did not exclude all other possibilities. These expts. further support the existence of 2 acid-binding sites on the human neutrophil LTB4 receptor.

135199-79-0, LY 278277 135199-80-3, LY 278278

RL: BIOL (Biological study)

(LTB4 receptor binding affinity for, mol. structure in relation to) 135199-79-0 CAPLUS

SH-Xanthene-2-propanoic acid, 5-carboxy-3-(decyloxy)-9-oxo- (9CI) (CA INDEX NAME)

135199-80-3 CAPLUS . 9H-Yanthene-4-propanoic acid, 5-carboxy-3-(decyloxy)-9-oxo- (9CI) (CA INDEX NAME)

ANSWER 12 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

- Nanthene derivs. [I; A = bond, O; Y = CO, C:NOH, CH(OH), CH2 C(:CH2); one of R1 and R2 is H, the other is CH2CH2CO2H; p = 1-16; 2 = H, GQ wherein G = bond, O, S, SoO, NH, CH:CH, C: Lpibond.C, Q = (substituted) Ph] are prepared To a solution of 0.7 g diester II in CH2CL2 were added AlCl3 and oxalyi chloride with stirring to give manthene derivative III (R = R4 = Et,
- R3

 H), which was etherified with decyl iodide and K2CO3 in MeCOEt at reflux to give 141 mg ether diester III (R = R4 = Et, R3 = decyl) (IV).

 Saponification of 130 mg IV with KOH in aqueous EtOH gave 60 mg ether diacid III (R = R4 H, R3 = decyl), which showed 251 inhibition of binding of [3H]-ITB4 to peripheral human neutrophiles at 10-6M. Six addin. xanthenes and a fluorene derivative were also prepared and tested. Tablet, capsule, aerosol.
- pool, etc., formulations were given.

 135199-79-09 139199-80-39

 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use);

 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as leukotriene antagonist)

 135199-79-0 CAPLUS
 9H-Xanthene-2-propanoic acid, 5-carboxy-3-(decyloxy)-9-oxo- (9CI) (CA INDEX NAME)

RN 135199-80-3 CAPLUS

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:535918 CAPLUS
TITLE: 115:135918 CAPLUS
115:13 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English PATENT NO. DATE KIND APPLICATION NO. DATE US 4996230 FI 9100728 EP 442748 EP 442748 19910226 19910817 US 1990-481413 FI 1991-728 EP 1991-301217 19900216 19910214 19910214 19910821 EP 442748 B1 19950111
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
CN 1054066 A 19910928 CN 1991-100939
CN 1028639 B 19950531
JP 04211037 A2 19920803 JP 1991-42992 1:
ZA 9101111 A 19921028 ZA 1991-1111 1:
NO 9100608 A 19910819 NO 1991-608 1:
NO 177097 B 19950719
AU 9171103 A1 19910822 AU 1991-71103 1:
AU 631482 B2 1992126
HU 56359 A2 19910828 HU 1991-521 1:
HU 208431 B 19931028
RU 2007401 C1 19940215 RU 1991-4894418 1:
CA 2036523 AA 19910817 CA 1991-2036523 1:
PRIORITY APPLN. INFO::
OTHER SOURCE(S): MARPAT 115:135918 19950111 19910214 19910214 19910215 19910215 19910215 19910215 19910218 A 19900216

ANSWER 12 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 9H-Xanthene-4-propanoic acid, 5-carboxy-3-(decyloxy)-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:535875 CAPLUS
115:135875 CAPLUS
115:135875 Potential antitumor agents. 63. Structure-activity relationships for side-chain analogs of the colon 38 active agent 9-mov-9H-manthene-4-acetic acid Rewcastle, Gordon W.; Atwell, Graham J.; Baguley, Bruce C.; Boyd, Marctar Thomsen, Lindy L.; Zhuang, Li; Denny, William A.

CORPORATE SOURCE: Solney William A.

CORPORATE SOURCE: Journal of Medicinal Chemistry (1991), 34(9), 2864-70 CODEN: UMCMAN; ISSN: 0022-2623
JOURNAL English

DOCUMENT TYPE: LANGUAGE: GI

The title compds. I (R = H, Me) and II (e.g. R - CO2H, CH2CH2CO2H, OCH2CO2H, CH2CSO3H, CH2CSCCH2CH2RNe2) were prepared and evaluated for their ability to cause early hemorrhagic necrosis of colon 38 tumors in micro The results extend the previous structure-activity relationship for this class and confirm the necessity for a CO2H group in a fixed disposition with respect to the xanthenne chromophore. None of the compds. showed superior potency to 9-oxo-9H-xanthene-4-acetic acid, with virtually all alterations in the nature of the anionic center or its geometry with respect to the chromophore greatly reducing or abolishing activity. Both enantiomers of I (R - Me) were active, but 5-(+)-I (R - Me) was much more dose-potent than the R-(-)-I (R - Me), in both the in vivo tumor necrosis assay and an in vitro assay measuring the stimulation of intric oxide production by macrophages. This suggests that the enantiomers have event

production by macrophages, into Suyyess and different intrinsic activities, rather than differing in their vivo metabolism intrinsic activities, rather than differing in their vivo metabolism if 42073-77-8P RL: BAC (Biological activity or effector, except adverse), BSU (Biological study), PREP (Preparation) (Synthetic preparation), BIOL (Biological study), PREP (Preparation) and antitumor activity of)
RN 42073-77-8 CAPLUS
CN 9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 28 ACCESSION NUMBER: 1990:503264 CAPLUS
DOCUMENT NUMBER: 113:103264 CAPLUS
TITLE: 113:103264 CAPLUS
AUTHOR(S): Light-induced breakdown of flavoneacetic acid and match and another analogs in solution
Revcastle, Gordon W.; Kestell, Phillip; Baguley, Bruce
CORPORATE SOURCE: Schweding Schwedin

DOCUMENT TYPE: LANGUAGE: GI

снасозн т

AB Since Na salts of flavoneacetic acid (I) and xanthenone-4-acetic acid derivs. (II, R = H, Me, Cl, CMe, CH, n = 1 or 2) were observed to form insol

white ppts. in solns., the photochem. decarboxylation of these compds, was studied. The decarboxylation rate observed for II derivs. was faster than that for I. In an antitumor study in mice, OH groups in II prevented decarboxylation and destroyed activity. Ne and Cl groups accelerated decarboxylation regardless of their position, but had varying effects on antitumor activity. The effect of Meo groups was position dependent. Although no direct correlation was found, the most dose-potent antitumor analogs tended to decarboxylate at faster rates.

42073-77-9 RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): THU (Therapeutic use): BIOL (Biological study): USES

(antitumor activity of, photochem. decarboxylation in relation to) 42073-77-8 CAPUS 9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

Rh: RcT (Reactant); RACT (Reactant or reagent) (photochem. decarboxylation of, antitumor activity in relation to) 12905-10-9 CAPUD:

L7 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

ANSWER 14 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 9H-Xanthene-4-carboxylic acid, 9-oxo-, sodium salt (9CI) (CA INDEX NAME)

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1988:142835 CAPLUS
108:142835
Potential antitumor agents. 54. Chromophore requirements for in vivo antitumor activity among the general class of linear tricyclic carboxamides
AUTHOR(S):
Palmer, Brian D., Rewcastle, Gordon W., Atwell, Graham J., Baguley, Bruce C., Denny, William A.
CORPORATE SOURCE:
SOURCE:
Journal of Medicinal Chemistry (1988), 31(4), 707-12
CODEN: JMCMAR; ISSN: 0022-2623
JOURNAL LANGUAGE:
English

English CASREACT 108:142835 OTHER SOURCE(S):

Structure-antitumor activity relationships are reported for a number of different examples (acridine, phenazine, anthracene, acridone, xanthenone, thioxanthenone, anthracquinone, pyridoquinazoline, dibenzodioxin, thianthrene, phenothiazine, phenoxazine, dibenzodiran, cachazole, and pyridoindole) of the general class of N-[2-(dimethylamino)ethyl] linear tricyclic carboxanides. Only the compds. containing coplanar chromophores intercalated DNA. There is an absolute requirement for an O or aromatic N (possibly as H bond acceptors) perit to the carboxanide, together with a planar ring geometry for biol. activity. In addition to further delineating the nature of the pharmacophore for this class of compds. the work has also identified dibenzo[1,4]dioxin (I) as a novel DNA-intercalating chromophore with in vivo antitumor activity.

42073-77-09

Ri: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT

42013-77-6P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(preparation and reaction with dimethylethylenediamine)
42073-77-5 CAPLUS
9H-Xanthene-4-carboxylic acid, 9-oxo-

L7 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:214626 CAPLUS
DOCUMENT NUMBER: 94:214626
INVENTOR(S): Pharmaceutical composition containing acridone and manchine compounds
GORVIA, John H.
DATEMIT ASSIGNEE(S): Burroughs Wellcome Co., USA
U.S., 14 pp. Division of U.S. 3,950,342.
CODEN: USXKAM
PATEMI TYPE: Patent
LNNGUAGE: Patent
English
TATILITY ACC. NUM. COUNT: 79
TATEMI INFORMATION: 3

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4250182	λ	19810210	US 1975-643603	19751222
CA 1009660	A1	19770503	CA 1972-151209	19720907
US 3950342	λ	19760413	US 1973-338578	19730306
US 3987088	A	19761019	US 1973-338414	19730306
AT 7502942	A	19761015	AT 1975-2942	19750417
AT 337169	В	19770610		
AT 7502941	λ	19761115	AT 1975-2941	19750417
AT 337680	В	19770711		
CA 1009576	A2	19770503	CA 1975-238615	19751027
FI 7600877	Α	19760401	FI 1976-877	19760401
PRIORITY APPLN. INFO.:			GB 1972-8609	19720224
			GB 1972-8610	19720224
			US 1972-287043	12 19720709
			GB 1972-39940	19720829
			GB 1972-40079	19720829
			GB 1972-41852	19721108
			US 1973-338578	A3 19730306
			GB 1971-41852	19710908
•			GB 1972-8608	19720224
			GB 1972-14909	19720329
			GB 1972-35818	19720801
			GB 1972-33939	19720829
			AT 1972-7680	19720907
				3 19720907
				19720907
				12 19720907
GI				

Acridone and manthones I (ZI = carboxyl, its salts, esters or amides; ZZ = same as ZI, H, NO2, CN, halo, acyl, alkyl, etc.; Z3 = 0 or NR where R = H or CI-4 alkyl) are useful for the relief or prophylaxis of allergic conditions. Xanthone 2,6-dicarboxylic acid (II) (33872-64-9) was prepared by the hydrolyzing 9-oxoxanthene 2,6-dicarbonitrile [52156-60-2].

L7 ANSWER 16 OF 28
ACCESSION NUMBER:
DOCUMENT NUMBER:
1982:507082 CAPLUS
97:107082
Fungus pigments. 40. Leprocybin, the fluorescent principle of Cortinarius cotoneus and related leprocybes (Agardicales)
KOPATOR SOURCE:
SOURCE:
CORPORATE SOURCE:
SOURCE:
Liebigs Annalen der Chemie (1982), (7), 1280-96
COEN: LACHDU, ISSN: 0170-2041
Journal

DOCUMENT TYPE: LANGUAGE: GI Journal

Leprocybin (I) a glucoside responsible for the yellow-green fluorescence of the fruiting bodies under UV light was isolated from Cortinarius toadstools (subgenus Leprocybe, section Leprocybe). On acid hydrolysis or action of B-glucosidase I was split into its aglycon leprocyboside, the constitution of which was elucidated by several derivatizations, decarboxylation, and alkaline degradation Final structural proof of the pyranoxanthone system was obtained by synthesis of 8-0-methyl(decarboxy)leprocyboside.

82650-64-4P

RIL SDN (Synthetic preparation), PREP (Preparation)

82850-64-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
82850-64-6 - CAPLUS
9H-Xanthene-2,5-dicarboxylic acid, 1,6-dimethoxy-3-methyl-9-oxo-(9CI)
(CA INDEX NAME)

ANSWER 17 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Alternatively, I was also prepd. by H2SO4 hydrolysis and cyclization of
2,5,4'-tricyanodiphenyl ether [42946-44-1] which was obtained by the
condensation of p-NacCGHICM [3328-57-2] and 2-nitroterephthalodinitrile
[4193-70-8]. A lotion for topical use was prepd. from II di-Na salt
[42946-47-4] 1.5, sorbitan monolaurate 0.6, polysorbate 20, 0.6
cetostearyl alc. 1.2, glycerin 6, and Me hydroxybenzoate .apprx.0.2 g.
77769-81-49
RL: PREF (Preparation)
(preparation of, for antiallergic pharmaceuticals)
77769-81-4 CAPLUS
9H-Xanthene-2,5-dicarboxylic acid, 9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1979:121350 CAPLUS
90:121350
Studies in xanthones. Part I. Synthesis of some iodo- and cyanoxanthones and bixanthonyls
Gaekwad, Y. G., Sethna, Suresh
Fac. Sci., Maharaja Sayajirao Univ. Baroda, Baroda, India
Journal of the Indian Chemical Society (1978), 55(8), 794-800
CODEN: JICSAH; ISSN: 0019-4522
Journal
LANGUAGE:
GI

LANGUAGE: OTHER SOURCE(S): GI

Iodination of 2-hydroxymanthone (I), 3-hydroxymanthone, 3,6-dihydroxymanthone (II), and 3-hydroxy-6-methoxymanthone by iodine-HIO3 or iodine-NHOH gave iodo derivs, the structures of which were determined

alternative preparation and NMR spectroscopy. Thus, I gave only 2-hydroxy-1-iodoxanthone (III), whereas II gave 3,6-dihydroxy-4-iodoxanthone, 3,6-dihydroxy-4,5-dirodoxanthone, 3,6-dihydroxy-2,4,5-triodoxanthone and 3,6-dihydroxy-2,4,5,7-tetraiodoxanthone. We ethers of the iodoxanthone alcs. undervent Rosenmund-von Braun cyanation to give nitriles. Thus, the Ne ether of III gave 2-methoxy-1-dyanoxanthone. The bixanthone IV was prepared by Ullmann coupling reaction of the Me ether of

III.

629202-95-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
62020-95-5 CAPLUS
9H-Xanthene-4-carboxylic acid, 3-hydroxy-9-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 19 OF 28
ACCESSION NUMBER:
DOCUMENT NUMBER:
1977:72363 CAPLUS
1977:72363 CAPLUS
1977:72363 CAPLUS
1977:72363 CAPLUS
Chemical investigations on Cassia occidentalis Linn.:
Pact IV. Syntheses of 5-carbomethoxy-1-hydroxy-3-methylanathones
as possible degradation products of cassiollin
Rudav. N. A.J Trivedi, B. K., Kulkarni, A. B.
Dep. Chem., Univ. Sombay, Bombay, India
Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1976),
148(5), 336-8
CODEN: IJSBDB, ISSN: 0376-4699
Journal

DOCUMENT TYPE: LANGUAGE:

I, R=CO2Me, Rl=H II, R-H, R1-CO2Me

8-Carbomethoxy- (I) and 5-carbomethoxy-1-hydroxy-3-methylmanthone (II) were prepared from orcinol (III). Condensation of III with 3-hydroxyphthalic acid in the presence of ZncI2-POCL3 and esterification with CHZN/2 gave I. Similarly condensation of III and 2-hydroxyisophthalic and esterification with MeOH gave II.
61822-25-1Phetic preparation); PREF (Preparation) (preparation and esterification)
61822-25-1 CAPLUS
9H-Xanthene-4-carboxylic acid, 8-hydroxy-6-methyl-9-oxo- (9CI) (CA INDEX NAME)

IT

ANSWER 18 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN

(Continued)

L7 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:111913 CAPLUS
DOCUMENT NUMBER: 82:111913 CAPLUS
Chemical investigations on Cassia occidentalis. III.
Synthesis of 5-carbomethomy-1,7-dimethomy-3methylsanthone and the structure of cassiollin
Kudav, N. A.; Trivedi, B. K.; Kukkarni, A. B.
Dep. Chem., Univ. Bombay, Bombay, India
Indian Journal of Chemistry (1974), 12(10), 1045-9
CODDM: 130CAP; 15SN: 0019-5103
Journal
English

L7 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1973:405347 CAPLUS
DOCUMENT NUMBER: 79:5347
TITLE: [[H-Tetrazol-5-yl]carbamoyl]anthraquinones,

The rest of the state of the st INVENTOR (5): PATENT ASSIGNEE (5): SOURCE:

DOCUMENT TYPE: Patent

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

ENI INFORMATION:				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2249100	A1	19730412	DE 1972-2249100	19721006
GB 1409656	A	19751008	GB 1971-46937	19720927
ZA 7206667	A	19730627	ZA 1972-6667	19720929
US 3887574	A	19750603	US 1972-293578	19720929
CA 999859	A1	19761116	CA 1972-152855	19720929
IL 40475	A1	19760331	IL 1972~40475	19721002
BE 789822	A1	19730406	BE 1972-122884	19721006
FR 2150210	A1	19730615	FR 1972-35558	19721006
AU 7247494	A1	19740411	AU 1972-47494	19721006
AT 318610	В	19741111	AT 1972-8607	19721006
NO 134256	В	19760531	NO 1972-3580	19721006
CH 588476	Α	19770615	CH 1972-14626 -	19721006
DK 135896	B	19770711	DK 1972-4955	19721006
SB 404924	С	19790215	SE 1972-12954	19721006
SB 404924	В	19781106		
JP 48044259	A2	19730626	JP 1972-101064	19721007
JP 56034593	B4	19810811		
NL 7213659	A	19730410	NL 1972-13659	19721009
ORITY APPLN. INFO.:			GB 1971-46937	A 19711008

PRIO GI AB

GRITY APPLN. INFO.:

GB 1971-46937

A 19711008

For diagram(s), see printed CA Issue.

Fourteen antiallergic title compds. (I, Q = CO or O; R = H, HeO,

HOCHECHEO, or 4-methylipperazinyl) and II [n = 1 or 0; R1 = H, 6- or 7-He,

6-02N, 6-NC, 6-(IH-tetrazol-5-yl), 6-[(IH-tetrazol-5-yl)carbamoyl, 7-HO,

or 7-HeO] and optionally their Na or Me2NGHZCH2CH salts were prepared by

reaction of the corresponding carboxylic acids or their chlorides with

5-amino-tetrazole (III). Thus, anthracquinonecarboxylic acid reacted with

III in CH2Cl2 and aqueous NaHCO3 24 hr at room temperature to give I (Q =

R =

CO. R

R = H).
H).
42073-77-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with aminotetrazole)
42073-77-8 CAPLUS
9H-Xanthene-4-carboxylic acid, 9-oxo- (9CI) (CA INDEX NAME) IT

L7 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION MUMBER: 1972:405281 CAPLUS
TITLE: Synthesis of a hydroxyxanthone dicarboxylic acid,
cassiaxanthone. Reactions of γ-resorcylic acid
with phenols
AUTHOR(S): Arunachalm, T., Anchel, Narjorie; Nair, M. S. R.
CORPORATE SOURCE: New York Bot. Gard., Bronx, NY, USA
Journal of Organic Chemistry (1972), 37(8), 1262-6
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The manthone dicarboxylic acid, cassiaxanthone (I) was synthesized by condensing γ-resorcylic acid (II) with 3.5-dimethylamthone, and oxidation side reactions in the condensation of II with several phenols were examined and a number of new products described. Self-condensation of II yielded 1.6-dihydroxyxanthones-5-carboxylic acid (III). In the presence of phenols, the corresponding esters of III were obtained as well. At higher temps, decarboxylation (of either II or III) occurred to yield 1.6-dihydroxyxanthones.

IT 33780-61-9P RL: SFN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 33780-61-9 CAPLUS
CN 9H-Xanthene-4-carboxylic acid, 3,8-dihydroxy-9-oxo- (9CI) (CA INDEX NAME)

ANSWER 21 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN

(Continued)

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1970:432292 CAPLUS

TITLE: 1901ation and structure of cassiolin, a new manthone Ginde, B. S., Hosangadi, B. D., Rudav. N. A., Nayak, K. V., Kulkarni, A. B.

CORPORATE SOURCE: Journal of the Chemical Society (Section) C: Organic (1970), (9), 1285-9

COEN: JOURNAL TYPE: Journal

LANGUAGE: ABA Acid-hydrolyzed extractives of C. occidentalis furnished, in addition to emodin and physcion, known to occur in the species, 2 unidentified pipments, m. 214-6° and 243-5°, chrysophanol, a3-sitosterol, and a new xanthone, cassiollin, identified as 1,7-dihydroxy-5-methoxycarbonyl-3-methylxanthone.

IT 27844-62-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 2784-62-8 CAPLUS

CN Xanthene-4-carboxylic acid, 2,8-dimethoxy-6-methyl-9-oxo- (8CI) (CA INDEX NAME)

L7 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1963:27136 CAPLUS COCURENT NUMBER: 59:47136 CAPLUS CORIGINAL REFERENCE NO.: 59:4502c-h,4503a-b Structures of osoic acids and

59:4502c-h,4503a-b Structures of osoic acids and related compounds; metabolites of Oospora sulphurea-ochracea Natori, Shinsaku; Nishikawa, Hidejiro Univ. Tokyo Chemical & Pharmaceutical Bulletin (1962), 10, 117-24 CODEN: CPBTAL; ISSN: 0009-2363

CODEN: CPBTAL: 155N: UUU9-2303

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

61 For diagram(s), see printed CA Issue.

8 Ultraviolet and infrared absorption spectra of osoic acid and 16 related compds. were measured, and indicated the diphenyl ether structure (I) of the metabolites A, D, and F of O. sulphurea-ochraces, each containing a

compds. were measured, and indicated the diphenyl ether structure (I) of the metabolites A, D, and F of O. sulphurea-ochracea, each containing a structure (I) of the metabolites A, D, and F of O. sulphurea-ochracea, each containing a structure (I) and O-Me, and 2 HO groups, with 2 MeO2C groups in D, 2 HO2C groups in F, and I HO2C and I MeO2C group in A. The arrangement of the substituents was supported by the manthone formation (II) on dehydration, methylation of all OH groups in anhydrososic acid (I, R) = R3 = R4 = R5 = H) by CH2M2. Reg. reaction of osoic acid (I, R] = R3 = R4 = R5 = H) with Co(NH3) 4Cl3 and (NH4) 2MoO4, and the structure of the closely related metabolite B, subochrin (III), all of which indicated a 2-HO2C group, no substituent at the 6'-position, no 3 - or 5'-HO groups, and no - or p-(HD)2 groups. The close relation between metabolite A and asteric acid (I, R] = R4 = Me, R2 = R3 = R5 = H) recently isolated (Curtis, et al., CA 55, 8332) from Aspergillus terreus, was next established by comparison of their choiriation products. Metabolite A treated with Clin CCl4 3 hrs. at room temperature gave a trichloro derivative (IV), m. 221-3', further chlorinated to IV. Geodin hydrate (a dichloro derivative of astertic acid), m. 203-6' (depressed on admixt. with V), treated 20 hrs. with SO2Cl2 in CRCl3 containing EtH gave IV, identical by mixed fusion and infrared absorption with the sample from metabolite A. Thus, metabolite A was established as I (R1 = R4 = Me, R3 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4 = R5 = H). Metabolite D was, therefore, I (R1 = R2 = R3 = R4

relations to compds. A. D. and F. Refluxing compound C. m. 198-9°, 2 hrs. with 10% KOH-MeOH gave compound F, whereas acetylation of compound C

Ac2OC5H5N gave compound A diacetate, m. $143-6^{\circ}$. Thus, compound C was established as I (RI = R4 = Me, R2 = R3 = H, R5 = Ac). The diacetate of compound D, m. $125-6^{\circ}$, was prepared with Ac2OH2SO4 for comparison.

L7 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1962:449194 CAPLUS
DOCUMENT NUMBER: 57:49194

AUTHOR(S): 75:9799h-i,9800a-c
MYCOlogical chemistry. X. Synthesis of flaviolin
(2,5,7-trihydroxy-1,4naphthoguinone)
Bycroft, B. W.; Roberts, John C.
CORPORATE SOURCE: Univ. Nottingham, UK
JOURNAL of the Chemical Society, Abstracts (1962)
2063-4

CODEN: JCSAAZ; ISSN: 0590-9791

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 57:49194

AB 3,5-(Meo)2CGRIGOCH (18.8;) refluxed 1.5 hrs. with 16 g. SOC12 gave 20 g.
3,5-(Meo)2CGRIGOCH (19, b3 118-20*. I (20 g.) in 50 cc. dry Et20
added with stirring to 0.4 mole CH2N2 in Et20, kept about 3 hrs. at room
temperature, and evaporated, the residue dissolved in 400 cc. absolute
MeOH, treated
with 1.7 g. dry BzOAg in 15 cc. Et3N, followed by an addnl. 1.2 g. BzOAg

With 1.7 g. dry BzOAg in 15 cc. Et3N, followed by an addnl. 1.2 g. BzOAg

, treated with 1.7 g. dry BzOAg in 15 cc. Et3N, followed by an addnl. 1.2 g. BzOAg in Et3N until the evolution of N ceased, refluxed with charcoal, filtered, and evaporated, and the residue dissolved in Et2O, extracted with aqueous

NaHCO3, and worked up gave 14 g. pale-yellow, oily 3,5-(NeO)2C6H3CH2CO2Me (II), bi5 155-60. II (4.0 g.), 4.5 g. Ac20, and 9.0 g. AcOH treated with 5 drops 60% aqueous HClO4, shaken occasionally during 15 min., diluted with

H20. and worked up with Et2O yielded 4.3 g. 2-Ac derivative (III) of II, prisms,

64° (petr. ether and sublined at 55°/0.1 mm.). III(1.5 g.) in 20 cc. EtOH added slowly to NaOEt from 0.24 g. Na in 30 cc. refluxing absolute EtOH, refluxed 20 min., cooled, aerated 4 hrs., and evaporated,

the residue treated with 100 cc. N H2SO4 and fitered off gave about 1.0 g. 2-hydroxy-5,7-dimethoxy-1.4-naphthoquinone [IV], pale-yellow needles, m. 218-19* (decomposition) (CSH6 and sublimed at 150 /0.1 mm.). IV (130 mg.) methylated gave 35 mg. 2.5,7-trimethoxy-1.4-naphthoquinone, golden-yellow prisms. IV (0.5 g.) stirred at 170* into 8 g. AlCl3 and 1.4 g. NaCl, kept 2 min. at 170*, cooled slightly, poured into 100 cc. 5N HCl, and extracted with Et2O-CEC13, the extract reextd. with

NaHCO3, the aqueous extract acidified and extracted with Et2O, and the

due from
the extract chromatographed on powdered cellulose yielded 6 mg. flaviolin,
bright red rhombs, m. 250° (decompm.) (dioxane-CGH6).
93322-72-6, Xanthene-4-carboxylic acid, 1,3,8-trimethoxy-9-oxo[preparation of]
93322-72-6 CAPLUS
Xanthene-4-carboxylic acid, 1,3,8-trimethoxy-9-oxo- (7CI) (CA INDEX NAME)

ANSWER 24 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Compd. E [m. 147-8*, {a|150 -66*. (EtcH)} hydrolyzed
with H2504 gave compd. A, m. 210-12*, treated 10 days at room temp,
with H604 it gave compd. D, and catalytically hydrogenated (Pd-C) in EtcH
it gave III, m. 250-4* (decompn.). The ultraviolet and infrared
absorption spectra of E were closely similar to those of geodin (Batton
and Scott, CA 52, 15497b), which undervent similar methanolysis with M60H
to give a compd. m. 153-4*, formed also by treating secdin hydrate
with CH2N2. Compd. E was assigned the structure bisdechlorogeodin (VI).
A possible biogenetic sequence of these metabolites was discussed.
3632-41-9. Xanthene-4-carboxylic acid, 3,5,7-trihydroxy-1-methyl-9-oxo(preparation of)
3632-41-9 CAPLUS
Xanthene-4-carboxylic acid, 3,5,7-trihydroxy-1-methyl-9-oxo(preparation of)
3632-41-9 CAPLUS
Xanthene-4-carboxylic acid, 3,5,7-trihydroxy-1-methyl-9-oxo(7CI, 8CI)

Xanthene-4-carboxylic acid, 3,5,7-trihydroxy-1-methyl-9-oxo- (7CI, 8CI) (CA INDEX NAME)

92965-51-0 CAPLUS
Xanthene-4-carboxylic acid, 3,7-dihydroxy-5-methoxy-1-methyl-9-oxo- (7CI)
(CA INDEX NAME)

95020-38-5 CAPLUS Xanthene-4-carboxylic acid, 3,5,7-trimethoxy-1-methyl-9-oxo- (7CI) (CA

L7 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

```
L7 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1962:449193 CAPLUS COCUMENT NUMBER: 57:49193 ORIGINAL REFERENCE NO.: 57:9799c-h
                                                                                                             57:9799c-h
Mycological chemistry. IX. Synthesis of methyl
1,3,8trimethoxyxanthone-4-carboxylate, a degradation
product of sterigmatocystin
Roberts, John C.: Underwood, J. G.
Univ. Nottingham, UK
Journal of the Chemical Society, Abstracts (1962)
2060-3
   AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
                                                                                                              CODEN: JCSAAZ: ISSN: 0590-9791
 CODEN: JCSAAZ: ISSN: 0590-9791

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(5): CASKEACT 57:49193

B of. CA 56, 11554f. The title compound (I) was synthesized in a 14-stage process from m-C6H4(OH)2 which was first converted by known procedures successively to 2.6-(H0)2C6H3Ac, 2.6-(H0)2C6H3Ac, 2.6-(H0)2C6H3Ac, 2.6-(H0)2C6H3Ac, 3.6-H0)2C6H3C02H (II), m. 134*. II (5.5 g.), 5.0 g. phloroglucinol, 15 g. ZnCl2, and 40 ncc. POCL3 heated 1.5 hrs. at 95-100*, cooled, stirred into 500 g. iced H2O, kept overnight, and filtered, the residue washed, dried, and extracted in a Soxhlet apparatus with
 with

Me2CO, and the extract evaporated yielded 1.2 g.

1,3-dihydroxy-8-methoxyxanthone

(III), yellow needles, m. 289-90° (EtOH and sublimed at
260°/0.05 mm.); it gave a brown color with aqueous FeCl3. III (4.5 g.)
in 25 cc. boiling Ac2O treated with 7 g. boroacetic anhydride in 15 cc.
hot Ac2O, refluxed 10 min., cooled, and filtered, and the crystalline
remidus
hot Ac20, refluxed 10 min., cooled, and filtered, and the crystalline residue boiled 15 min. with 150 cc. H20 yielded 4.1 g. 3-acetate (IV) of III, yellow needles, m. 193° (EtOH and sublimed at 175°/0.05 mm.). IV (4.0 g.), 10 cc. NeI, 10 g. dry X2CO3, and 700 cc. dry Me2CO refluxed 48 hrs. with the addition of two 10-cc. portions NeI at suitable intervals, filtered, and evaporated gave 3.6 g. 3-acetoxy-1,8-dimethoxymanthone (V), m. 195° (EtOH and sublimed at 175°/0.05 mm.). V (3.5 g.), 1.5 g. NaOH, and 250 cc. MeOH kept 3 hrs. at 35-40°, 150 cc. solvent removed, diluted with 500 cc. H2O and 25 cc. AcOH, and centrifuged, and the gelatinous precipitate dried and extracted with Et2O in a Soxhlet gave from the extract 2.2 g. 3-hydroxy-1,8-dimethoxyxanthone (VI), m. 275-7° (sublimed). VI (1.8 g.), 30 cc. 253 aqueous [EtAHO]GI, 7 cc. H2O, and 7 cc. CHCJ refluxed 4 hrs. with stirring, the aqueous layer acidified with 2N HCl, and filtered, and the dried
                         residue extracted with C6H6 gave from the extract 175 mg. 4-CHO derivative
residue extracted with Lono gave 150m - 1.0 (VII) of VI, needles, m. 252-3' (Me2CO and sublimed at 235'/0.05 mm.); it gives a cherryred color with alc. FeCl3. 1.HEO sublimed at 180'/0.05 mm. gave I, needles, m. 203' VII (95 mg.) in 25 cc. dry refluxing Me2CO treated during 2 hrs. with 35 mg. powdered XMnO4 in portions, diluted with 50 cc. H2O, and filtered, the filtrate adjusted to p 10 with 2N NaOH, concentrated to 50 cc., acidified, and extracted with Et2O. the
  It with 2M MaOH, concentrated to 50 cc., aciditied, and extracted with Et20, the Et20 extract reextd. with saturated aqueous NaHCO3, and the aqueous extract acidified
                    yielded 67 mg. 4-CO2H derivative (VIII) of VI, m. 240-5° (decomposition).
VI treated 12 hrs. at room temperature with 5 mole equivs. CH2N2 yielded 45
mg.
I, m. 203* (MeOH and sublimed at 180*/0.05 mm.).
IT 93322-72-6, Xanthene-4-carboxylic acid, 1,3,8-trimethoxy-9-oxo-
```

```
L7 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2005 ACS on STM
ACCESSION NUMBER: 1960:110508 CAPLUS
ORIGINAL REFERENCE NO:: 54:110508
TITLE: Mycological chemistry VII. Sterigantocystin, a metabolite of Aspergillus verieque (Willlemin)
Tiraboschi
Davies, J. E.; Kirkaldy, D.; Roberts, John C.
Univ. Nottingham, UK
Journal of the Chemical Society, Abstracts (1960)
2169-78
CODEN: JCSAAZ; ISSN: 0590-9791
                                                                                                    CODEN: JCSAAZ; ISSN: 0590-9791
                CODEN: JCSAAZ, ISSN: 0590-9791
JOURNAL
SUAGE: Unavailable
For diagram(s), see printed CA Issue.
cf. CA 54, 13111f. The isolation of the metabolite sterigmatocystin (I)
was described and its structure discussed. (Ultraviolet absorption
spectra determined in EtOH). A. versicolor (Vuillemin) Tiraboschi was kept
   DOCUMENT TYPE:
   LANGUAGE:
                  subculture on Czapek-Dox agar slopes. The mold grown in surface culture on 3% sucrose and inorg. salts (Czapek-Dox formula) in desionized H2O (in flat round culture flasks, each containing 500 ml. medium, sterilized, and then inoculated with a heavy aqueous spore suspension), kept 21 days in the dark at 30° ± 1°, the mycelium collected, washed, dried in vacuo at 45°, the finely powdered mycelium (380 g. from 100 flasks) extracted (Soxhlet) 48 hrs. with Me2CO, the extract (1 l. from 100 g.
                     kept overnight at 0^{\circ}, filtered, the filtrate concentrated to 40~{\rm ml.}, chilled, the precipitate collected, dissolved in CHCl3, the filtered
   solution poured
                    tion poured onto a column (30 + 5 cm.) MgO (previously heated 2 hrs. at 250°), the column developed with CHCl3, eluted with CHCl3 (a yellow band eluted), the eluate evaporated, and the residue crystallized from
                    D gave
1.38 (calculated on dry mycelium) I, m. 241-2' (decomposition), sublimation
at 180'/0.5 mm. giving pure I, m. 246' (decomposition). Sublimed
I formed pale yellow needles, m. 246' (decomposition), [e] 20.50
-397' (c 0.424, CRCL3), k 205, 233, 246, 325 mm [log
4.4.0, 4.49, 4.53, 4.21), v 3450, 3099, 2995, 2975, 2920,
1650, 1627, 1610, 1590, 1496, 1482, 1447, 1415, 1400, 1362, 1347, 1322,
1300, 1272, 1239, 1197, 1179, 1122, 1098, 1067, 1044, 1019, 993, 978, 952,
932, 904, 895, 846, 823, 774, 756, 735, 722, 702, 668 cm. -1 I vas insol.
in HZO, aqueous Na2CO3, and aqueous NaOH (deep yellow color with aqueous
  sparingly soluble in most organic solvents, but readily soluble in CHC13 and CSH5N.
                    I gave a dark green-brown color with concentrated H2SO4, a green color with
                    FeCl3, and a yellow-brown color with aqueous FeCl3. I gave a pos. Gibbs reaction (Xing, et al., CA 51, 96041). I (0.1~\rm g.) was recovered unchanged after shaking 7 days with 50 ml. EtOH and 10 ml. concentrated RCl. A
                    lar mixture stirred 3 days at 40-50° gave an unidentified compound, m. 225-7° (decomposition) (EtOH). I (2 mg.) heated 20 min. at 80-90° with 1 mi. 90° H3P04 in a sealed tube, the tube cooled, crushed under 5 ml. icad H2O, the solution distilled (the 1st 0.6 ml. collected), and 0.3 ml. distillate tested with chromotropic acid gave a neg. test for CH2O (absence of a methylenedioxy group in I). By Michael's method (Am. Chemical J. 5, 81(1893-4)) was prepared 1-hydroxyxanthone, m. 146-7°, v. 1652, 1616, 1580, 1555, 1483, 1464, 1382, 13155, 1337, 1290, 1240, 1221, 1183, 1166, 1121, 1067, 1029, 938, 869, 821, 780, 730,
```

ANSWER 26 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (prepn. of) 93322-72-6 CAPLUS Xanthene-4-carboxylic acid, 1,3,8-trimethoxy-9-oxo-

oxylic acid, 1,3,8-trimethoxy-9-oxo- (7CI) (CA INDEX NAME)

ANSWER 27 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
677 cm.-1 I (31.1 mg.), 10 ml. AcOH, and 30 mg. 5% Pd-C shaken in H
16fere 40 min. absorption ceased 2.08 ml. absorbed), the mixt.
filtered, the filtrate evapd. in vacuo, and the residue (30 mg.) crystd.
twice from BKOB gave dihydrosteriqmatocystin (III, yellow plates, m.
229-30' (sublimed specimen), A 208, 232, 247, 325 mg. (log
8 4.31, 4.24, 4.99, 4.21), v 3460, 2995, 2975, 2920, 1190, plates, m.
239-30' (sublimed specimen), A 208, 232, 247, 325 mg. (log
8 4.31, 4.24, 4.99, 4.21), v 3460, 2995, 2975, 2920, 1297, 1275, 1278,
135, 705, 661 cm.-103, 1054, 1039, 1386, 1312, 1297, 1275, 1278,
135, 705, 661 cm.-103, 1054, 1079, 1089, 1366, 1312, 1297, 1777, 751,
135, 705, 661 cm.-103, 1054, 1079, 1089, 1366, 1312, 1397, 1777, 751,
135, 705, 661 cm.-103, 1054, 1079, 1

ANSWER 27 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) Successive quantities 10% aq. KOH until the aq. layer was no longer colored, the combined aq. exts. acidified with conoci. BCl, the mixt. extd. with £20, the E20 exts. washed with H20, dried, evapd., the residue (0.4 g.) sublimed at 140'0'.1 mm., and the product (0.3 g.) repeatedly crystd. from CGR6 (or CGR6 contp. a trace EtOAc) gave 1,3,8- trihydroxysanthone (VII), needles, m.p. and mixed m.p. 192-3'.

£6-(E0) CGCRFCOZR (Cartwright, et al., Cx 47, 53820) (2 g.), 2 g. dry phloroglucinol, 8 g. fused ZGC12 and 14, 7, 53820) (2 g.), 2 g. dry phloroglucinol, 8 g. fused ZGC12 and 14, 7, 53820) (2 g.), 2 g. dry phloroglucinol, 8 g. fused ZGC12 and 140 ml. PCD13 heated 1.5 hrs. at with am, NMECO3, the syt. expect. exp

L7 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1959:122089 CAPLUS
DOCUMENT NUMBER: 53:122089
CAPLUS
53:122089
CAPLUS
53:122089
CAPLUS
53:121916, 21917a-g
Heterocyclic fluorine compounds. III.
Honofluoroxanthones
Allen, F. L.; Noch, P.; Suschitzky, H.
CORFORNTE SOURCE: West Ham Coll. Technol., London
Tetrahedron (1959), 6, 315-18
CODEN: TETRAB; ISSN: 0040-4020
JOURNET

CODEN: TETRAB; ISSN: 0040-4020

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
Ab cf. C.A. 50, 1764h). The 4 monofluoroxanthones (I) (R - H) (II) were
prepared by cyclization of the appropriate carboxyfluorodiphenyl ether (III)
and by a Bair-Schiemann reaction (C.A. 21, 2689) with the corresponding
aminoxanthone. Na (2 moles) in 40 parts by weight MeOH containing a trace
of Cu

of Cu

powder treated with 1 mole fluorophenol and 1 mole o-CICGH4COZH,
the solvent evaporated and the mixture heated 2 hrs. at 150° and 20 min.
at 200°, the mixture extracted with boiling H2O and the filtered solution
acidified, the product refluxed 8 hrs. with MeOH and H2SO4 and excess MeOH
evaporated, the residue poured onto ice and the mixture extracted with
Et2O, the

extract evaporated and the product fractionally distilled gave III (R = Me, Rl = H,

R1 = H,

R2 = 2-F), b3 146°, III (R = Me, R1 = H, R2 = 3'-F), b4

145°, and III (R = Me, R1 = H, R2 = 4'-F), b4 154°, in 40,

32.5, and 441 yields, resp. Condensation of 2,4-CIFCZH6O2H and PhOH with

Na gave 301 III (R = Me, R1 = H, R2 = 5'-F) (IV), b6 158° Concentrated

HZSO4 (30.6 g.) and 10 g. 4,2-F(NHZ)CGH3Me in 93 ml. HZO diazotized, added

portionwise to 150 ml. boiling saturated aqueous CuSO4 and the mixture

steam-distilled

modistilled gave 90% oily 4,2-F(HD)CGH3Me (V), b4 66°, p-nitrobenzyl ester, m. 131°. Condensation of V with o-CICGH4CO2H yielded 35% III

(R = R1 = Me, R2 = 5°-F), b2 128°. III (5 g.) hydrolyzed with 100

nl. N XOH gave the listed 2-carboxydiphenyl ethers, III (R = H) (R1, R2, n.p. of ether, and m.p. of p-nitrobenzyl esters given): H, 2'-F (VI), 140°, 75°, H, 3'-F, 130°, 54°, H, 4'-F, 142°, 76°; H, 5'-F, 122°, 108°, Me, 5'-F, 142°, 76°; B, 5'-F, 121 (R = H) heated 30 min. on a steam bath with 15 parts by weight H2SO4 and the mixture poured onto ice, filtered and

washed precipitate recrystd. (alc.) gave I. Appropriate aminoxanthones

washed precipitate tectystic. (alc.) gave 1. Appropriate aminozanthones ared from 1-, 2-, 3-, and 4-nitroxanthones converted into the corresponding diazonium borofluorides and decomposed according to A. and S. (C.A. 49, 1700h) also gave 1. Cyclization of VII gave 66.55 I (R = Me, $R^* = 1-P$), m. 156-77, taken up (2.4 g.) in 75 ml. 2:1 ACCH-H2504 and oxidized by slow addition of 6 g. CrO3 in 30 ml. H20 at 6° , the mixture poured onto ice and filtered to yield 921 I (R = CO2H, $R^* = 1-P$), m. 252 (decomposition)) p-O2NCGH4CH2 ester, m. 170-2°. The acid (0.5 g. heated in an ignition tube) and the residue extracted with ligroine (b. $60-80^{\circ}$) yielded 60 II ($R^* = 1-P$) (VIII), m. 147° . Ring closure of III ($R^* = 1 + R$) and $R^* = 3-P$) gave a mixture of II ($R^* = 3-P$) (IX) and VIII, separable by fractional crystallization from alc. in which IX is

less soluble VIII and IX were purified by chromatography in ligroine on Al203. Decomposition of manthone-1-diazonium borofluoride, m. 154 (decomposition yielded 503 VIII. Cyclization of the appropriate ether yielded 83% II (R' = 2-F), m. 156*, also produced in 58% yield by decomposition of ANSWER 27 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
NaHCO3 and 25 ml. H2O, and evapod. to give 60 mg. 3,8-di-Ac deriv. (XII) of
X, m. 152'. XII (60 mg.) in 10 ml. EtOH and 1 ml. concol. HC1
refluxed 2 hrs., cooled, the ppt. collected, washed, dried, and the
product (48 mg.) sublimed at 250-60'/0.05 mm. gave X, m.
331-4' (decompn.), its ultraviolet absorption spectrum identical
with X obtained by degradation (above). 03-0 bubbled through 0.325 g.
III in 120 ml. CRC13 cooled in Dry Ice-He2Oo, when absorption was complete
the soln. allowed to regain room temp. the CRC13 removed in vacuo, the
residue treated with 50 ml. H2O, the mixt. allowed to stand overnight,
heated 1 hr. on a steam bath, filtered (0.25 g. insol. residue, which
could not be obtained cryst.), the filtrate distct to min. vol., dild.
with 20 ml. H2O, again.distd., this operation repeated several times, the
combined distillates neutralized with 15.9 ml. 0.5N NaOH (external
phenolphthalein indicator), the soln. concd. to 10 ml. shaken with
20 ml. H2O, again.distd., this operation repeated several times, the
combined distillates neutralized with 15.9 ml. 0.5N NaOH (external
phenolphthalein indicator), the soln. concd. to 10 ml. shaken with
20 ml. H2O, again.distd., this operation repeated several times, the
combined distillates neutralized with 15.9 ml. 0.5N NaOH (external
phenolphthalein indicator), the soln. concd. to 10 ml. shaken with
20 ms. the chromotropic acidl gave pos. tests for HCOZH3 no other
acid could be detected in the filtrate by paper chromatography. II (2 g.)
shaken 1 hr. with 50 ml. 25% ag. 2tMOEM, the soln. treated during 8 hrs.
with 1.8 g. X25208 in 50 ml. H2O with continuous shaking, the mixt.
shaken a further 12 hrs., acidified with 2N HC1 to Congo red, filtered,
the filtrate treated with 20 ml. concd. HC1, the mixt. heated 1 hr. on a
steam bath, allowed to stand overnight at room temp., the ptt. collected,
washed, dried, and the product (0.8 g.) crystd. from EcOH with C and then
ECOH-CGH6 gave 0.2 g. 5-OH deriv. (XIII)

(preparation of)
100954-26-5 CAPLUS
Xanthene-4-carboxylic acid, 3,8-dihydroxy-1-methoxy-9-oxo- (6CI) (CA
INDEX NAME)

ANSYER 28 OF 28 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) wanthone-2-diazonium borofluoride. Cyclization of IV yielded 75.5% IX, m. 158°, and pyrolysis of xanthone-3-diazonium borofluoride gave 45.5% product, m. 161' (decompn.). Similarly, ring closure of VI gave 76% III (R' = 4-P), m. 177°, also produced by a Balx-Schiemann reaction as impure material (21%), purified by chromatography in ligroine on Al203. 4859-489-2, Xanthene-4-carboxylic acid, 1-fluoro-9-oxo-(preparation of) 4559-489-2 CAPLUS
Xanthene-4-carboxylic acid, 1-fluoro-9-oxo-(6CI, 8CI) (CA INDEX NAME)